

Amendment Dated: September 18, 2007
Reply to Office Action of June 20, 2007
REPLACEMENT SHEET

	80	*	100	*	120	*	140	*																																																								
exmi009	:	AALSVRDAVL	TGINSVGTII	SNLGVPLASQ	SGIISBLIGI	WAGP--D	PFEALMVLVEELIKKSIDQ	VRNAL : 141																																																								
cry1a	:	--IETGYTPD	ISLSLTQ	LLSEFVPGAGF	VGLVDI	IINGIFCP---	SQMDAPFVQIQLINQRIEEFARNQAI	: 97																																																								
cry1a	:	--IETGYTPD	ISLSLTQ	LLSEFVPGAGF	VGLVDI	IINGIFCP---	SQMDAPFVQIQLINQRIEEFARNQAI	: 97																																																								
cry1a	:	--IETGNSSD	ISLSLQV	FLVSNFVPGG	GLVCLDFVW	GIWGP---	SQMDAPFVQIQLINQRIEEFARNQAI	: 96																																																								
cry1a	:	--IYSTAQIT	QIGIACKI	LIGTLGV	FPAGQV	ASLYSTFLGELUP--	KGNKQWEIPEHVEEII	INOKIISTYARNKAL : 125																																																								
cry3Aa1	:	--STTKVVIQ	KGISVVG	QILGWG	VFPFGG	ALYSFYTNFLT	TUUPS--EDPWKA	FWOEVEALMDQKIADYARNKAL : 138																																																								
cry3Ba	:	--STVKDAVGT	GISVVG	QILGWG	VFPFAG	ALTSFYQSF	LNAIWP	SD--ADPWKA	FWAQVEVLIDKKIEEYAKSKAL : 139																																																							
cry3Bb	:	--STVKDAVGT	GISVVG	QILGWG	VFPFAG	ALTSFYQSF	LNTUWP	SD--ADPWKA	FWAQVEVLIDKKIEEYAKSKAL : 131																																																							
cry4Aa	:	--SGELSA	TVIVG	TVLTGRG--	FTTPLGL	ALIGFTL	LPVLPFAQ	QSNWTSDF	TTQTKNIIKKEIASTVYSNAN : 138																																																							
cry6Aa	:	-----	FIISKQEW	ATTCAYIQT	GLGLPV	NEQURTHV	MLSQDIS	TPSDFSQ	LYDVYCDKTSAEUWKNLV : 102																																																							
cry7Aa	:	--ASGNTAI	NWVSTG	ATISAL	GVPG	CASTFNT	FYLK	IAGL	LUPEN--GKIUDE	FWTEVEALIDQKIEEYVPMKAI : 124																																																						
cry8Aa	:	--FISSTT	QTQIGI	VGRI	LICAL	GVFP	ASQIAS	FYSF	TVGQLP	SKSVDIUGE	TWERVEEVLVDQKIEKYVKOKAL : 135																																																					
cry10Aa	:	--SETIVG	SAGIIV	VGTM	LCAFAA	PVLAAG	ISIF	GTLLP	FIWQGS	DPANWQD	LLNIGRPIQ	EDKNI	TNVL	: 139																																																		
cry16Aa	:	--AGLKG	GLGIV	STVTV	FFGGS	II	LD	TIGL	FTQISE	LLWPEDD	TUQ--YT	WQD	IMNH	VED	ILDK	RITE	VTIRGNAI : 136																																															
cry19Ba	:	---CPSQ	LKVGGS	IVAKILG--	MIPE	VGPL	SUMV	SLFW	PTTIE	EKN--TV	WEDMI	KYV	ANL	KLQ	TE	INT	TLN	RAT : 128																																														
cry24Aa	:	--IISP	SPAAAT	TSKIV	SIV	TLAK	AVASS	LAD	SIK	SSLS	IGTSIK	TI	EMNV	SOV	SVQV	HQI	INRR	IQ	ET	TL	DIGE : 125																																											
cry25Aa	:	---SIF	GTLCV	LASIV	IST	NLAT	SPSIG	DAP	ALVSS	ICEY	WPETK--TS	F	PLSV	AD	VN	RL	IRE	ALD	Q	N	A	T	RAT : 123																																									
cry40Aa1	:	-----	AF	T	IT	S	I	C	I	D	L	I	E	F	L	N	E	P	S	L	G	G	I	N	T	L	F	S	I	I	G	K	L	I	P	T	N--H	O	S	V	S	A	L	S	I	C	D	L	L	S	I	R	K	E	V	A	D	S	V	L	S	D	A	I : 118

FIG. 1A

REPLACEMENT SHEET

	160	*	180	*	200	*	220	
exmi009	R-ELEGLOGIMR-IYQTRLOAULVNKN		DDNRALVTQYAVDNFFKXNMPKFKERN				FEI	198
cry1a	S-RLEGLSNLYQ-IYAESEFEADPT		NPALREEMRIQFNDMMSALTTAIPLLAVQN				YQV	155
cry1a	S-RLEGLSNLYQ-IYAESEFEADPT		NPALREEMRIQFNDMMSALTTAIPLLAVQN				YQV	155
cry1Ca	A-NLEGLGNFN-IYVEAFKEUEEDPN		NPATRTVDRFRILDLGLERDIPSPRISG				FEV	154
cry1Ia	T-DLKGIGDALA-VYHDSLESUVGNRN		NTRARSVVSQYIALELMFVKLPFAVSG				EEV	183
cry3Aa1	A-ELQGLQNNVE-DYVSALSSQKNPVSSR		NPSQGRIRLELFSQAEHFRNSMPSFAISG				YEV	199
cry3Ba	A-ELQGLQNNFE-DYVNALDSMKAPVNL		SRRSQDRIRLELFSQAEHFRNSMPSFAVSK				FEV	200
cry3Bb	A-ELQGLQNNFE-DYVNALDSMKKTPLSR		SRRSQDRIRLELFSQAEHFRNSMPSFAVSK				FEV	192
cry4Aa	K-ILNRSFNVIS-TYHNHLKTWENPN		PONTQDVRTQIQLVHYHFQNVIPELVNSCPPNSDCYNI				IL	204
cry6Aa	PLIIKSANDIASYGFVKVAGDPSIKQD		YFKKLODELNDNVNNSDDAIAKAIDFKARCG				YRI	165
cry7Aa	A-ELDGLGSALD-KYQKALADWLKQD		DPEALISVATEFRIIDSLFESMPSFKVFG				HEV	182
cry8Aa	A-ELKGLGNALD-VYQQSLEDWLEMRN		DARTRSVVSQFIALDLNFVSSIPSFVSG				HEV	193
cry10Aa	S-IVTPIKNQLD-KYQEFDDKJEPART		HAMAKAVHDLFTTLEPIIDKDLMLKNNAS				YRI	197
cry16Aa	R-TLADLOQKVD-DYNNULKKKQDDPK		STGWLSTLVTKFTALDSDFNGAIRTVNNQGSP				GYEL	197
cry19Ba	S-WLSGLMESLN-IYNRALAAKQKNK		NFASGELIRSYINDLHILFTRDIQSDPSLG				GYET	187
cry24Aa	S-SLNGIYVAIYNRDYLGALCAUNNKS		NINQVTNAEAFKVEREFFTKLKGIVRTSS				SQI	185
cry25Aa	G-KFNGLMDTYNTVYLNLDQWYDTRIPANPQGSQLEAARRSLEERDFRKALAGEFAEAG						SQI	189
cry40Aa1	CRFLDGKLNRYEYLPYLEAWLKDCKPLQKT		NNSDIGQLVKYFELSERDFNEILGGSIAARNN				AQI	184
	240	*	260	*	280	*	300	
exmi1009	LLLPTYQAANLHLLLRDADYFG-AQWQLGEDEIRDNVIR						LQGLIREYKDHCIITFYNG	257
cry1a	PLL SVYQAANLHLSVLRDVSFVG-QRUGFPAATINSRYND						LTRLIGNYTDYAVRWYNTG	214
cry1a	PLL SVYQAANLHLSVLRDVSFVG-QRUGFPAATINSRYND						LTRLIGNYTDYAVRWYNTG	214
cry1Ca	PLL SVYQAANLHLLLRDVSIFG-ERUGLTTINVENMYNR						LIRHIDEYADHCANIVMRG	213
cry1Ia	PLLPTIYAQAANLHLLLRDASIFG-KEMGLSSSEISTFYNR						QVERAGDYSCHCKVYSTG	242
cry3Aa1	LFLTPTIYAQAANLHLLLRDQAQIYG-EEWGYSSEDI AEFYQR						QLKLTQOYTDHCVKYNVNG	258
cry3Ba	LFLTPTIYAQAANLHLLLRDQAQVFG-EEWGYSSEDI AEFYQR						QLKLTQOYTDHCVKYNVNG	259
cry3Bb	LFLTPTIYAQAANLHLLLRDQAQVFG-EEWGYSSEDI AEFYQR						QLKLTQOYTDHCVKYNVNG	251
cry4Aa	LVLSYQAQAANLHLLTVLNOAVKFEAYLKNRQFDYLEPLPTAI						DYVPVLTKAIEDYINVCVITVYKKG	271
cry6Aa	IKKAKQVEEAAKNIVTSLDQFLHGDQKQKLEGVINIKRKEVUT						ALNQAHGESSPAHKEL	225
cry7Aa	PLLPTIYAQAANLHLLLRDSTLYG-DKUGFTQNNIENMYNR						QKKRISEYSDHCTKWTNSG	241
cry8Aa	LLLA VYAQAANLHLLLRDASIFG-EEWGFTPGCISIRFYNR						QVQLTAESYDVCVKYKIG	252
cry10Aa	PTLPAYAQIATQHNLNLLKHAATYNNLWQNGINPSTFWSSNY						YQG-YLKRKIQEYDICIQTYNAG	263
cry16Aa	LLLPVYAQAANLHLLLRDQAQIYGDKWTSAPANARDNYVQI						QLEKTEYIEYCINWYKNG	257
cry19Ba	VLLPSYSAANLHLLLRDVAIYG-KELGYPSTDFEYFYNE						QKYTEKYSNYCVNTYKSG	246
cry24Aa	TLLPTTQAANLHLSMLRDVAVYQEGUNLQSHINYSEKLD						ALEDYTNVCVEVYTKG	242
cry25Aa	VLLPTIYAQAANLHLLILKDAWQFRIDGLIRPVGPITTSADP						FESEFLLRKIKYDHCISYYDDG	256
cry40Aa1	LLLPYFCAACKQLLLLRDAVQVEEQWFFFLSAENVSELSIPNSGCDFTGDYVERLKCKIAEYDICEYQVQAG							259

FIG. 1B

REPLACEMENT SHEET

	*	320	*	340	*	360	*
exmi009	:	LNQFNR-----SNAQWVSFNRFRIDMTLTVLDIALFPNDPRRYB-----		LAVKTELTREYVTDPVGFTGVL	:	321	
cry1Aa	:	LERVUG-----PDSRDWRYNQFRRELTITVLDIVALFSNDVSRYP-----		IRTVSOLTREIYNPVLEN---	:	275	
cry1Ac	:	LERVUG-----PDSRDWRYNQFRRELTITVLDIVALFPNDVSRYP-----		IRTVSOLTREIYNPVLEN---	:	275	
cry1Ca	:	LNMLPK-----STYQDMITTYNLRRLDITVLDIAAFFPNVDMRRYP-----		IQPVGQLTREYVTDPLINFNPQ	:	277	
cry1Ia	:	LNMLRG-----TNAESQVRYNQFRDNTLMVLDIVALFSDVTQMP-----		IKTTAQLTREYVTDAGTVHPH	:	306	
cry3Aa1	:	LDKLRG-----SSYESQVNFNRFRRENTITVLDIALFPLDVRLYP-----		KEVKTELTROLDPIVGVN---	:	320	
cry3Ba	:	LNLSRG-----STYDAWVKFNRFRRENTITVLDLIVLFPFDVRLYS-----		KGKTELTROLDPIFIFLM---	:	321	
cry3Bb	:	LNLSRG-----STYDAWVKFNRFRRENTITVLDLIVLFPFDVRLYS-----		KGKTELTROLDPIFIFLM---	:	313	
cry4Aa	:	LNLIKTPDSNLDGNINUMTYNTYTKMTTAVLDIVALFPNDVGKYP-----		IGVQSELTREIYQVNLNFEES---	:	339	
cry6Aa	:	LEKVKM-----TLERTTKAEQDLEKKVEYSFLGP-----		LLGFVVEIILENTAVOHKN	:	278	
cry7Aa	:	LSRLNG-----STYEQWLNYNFRRENTITVLDLIVLFPFDVRLYS-----		METSTQLTREYVTDPVLSISN	:	305	
cry8Aa	:	LDKLRG-----TTSKSLNHYHQFRRENTITVLDLIVLFPNDVTHMYP-----		IETTAQLTRDVTDPIDAFNIVT	:	316	
cry10Aa	:	LTMIRT-----MNAWUMYNTYRENTITVLDLIVLFPNDVPEKYP-----		IGVKSLEIREYVTVNNSDT---	:	324	
cry16Aa	:	LNDF-----RTAGQWVNFNRFRRENTITVLDLIVLFPNDVPEKYP-----		TEVKTELTREIYSDVINGEYIG	:	319	
cry19Ba	:	LESK-----KQIG--USD FNRFRRENTITVLDLIVLFPNDVPEKYP-----		LSTKISLSRKIYTDVPGRTDSP	:	306	
cry24Aa	:	LNALRG-----STADULEFNSTFRDNTLMVLDLIVLFPNDVPEKYP-----		LPTQTELSRVVYTDVPGCFGNR	:	322	
cry25Aa	:	LAKIRSG-----SDGETUWEFNKFRRENTITVLDLIVLFPNDVPEKYP-----		LPTHVELTREIYTDVPGVSGT	:	325	
cry40Aa1	:	LNQIKQAG-----TGADTWAKFNKFRRENTITVLDLIVLFPNDVPEKYP-----					
exmi009	:	ESGGRYPWYNPNMTITFIAMENARRRPSYTTWLNRIFFVYTRTLGNMS-----		DVRNIUGGHTLVENGNDGSEIT	:	391	
cry1Aa	:	-----FDGSFRGMAQRIEQNIRQPHLMDILNSITIIYDVHRG-----		FNYSGHQITASPVGFSGP-	:	331	
cry1Ac	:	-----FDGSFRGSAQGIERSIRSPHLMDILNSITIIYDAHRG-----		YYYGSHQIMASPVGFSGP-	:	331	
cry1Ca	:	-----LQSVADLPFTNVNESAIRNPHLDILNLTITITDUFVSGR-----		NFYGGHHRVIVSSLIIGGN--	:	336	
cry1Ia	:	PSF-TSTWYNNMAPSFAIEAAVVRNPHLDLFLEQVITYLLS--RQ-----		SNTQYNNWGGHKLLEFRTI-	:	370	
cry3Aa1	:	-----NLRCYGITTFSENIYIRKPHLFDYLRHQFTRFPQGYCN-----		DSFNYSQWYVSTRPSIGEND-	:	382	
cry3Ba	:	-----ALQYGPFTFSIENSIRKPHLFDYLRGIEFTRLRPGYSCK-----		DSFNYSQWYVSTRPSIGEND-	:	383	
cry3Bb	:	-----TLQYGPFTFSIENSIRKPHLFDYLRGIEFTRLRPGYSCK-----		DSFNYSQWYVSTRPSIGSK-	:	375	
cry4Aa	:	-----PYKYDFQYQEDSLTRRPHLFTWLDLNFYEKAQTPN-----		NFFTSHYNNMFTYLDNIS-	:	395	
cry6Aa	:	-----QIDEIKKQLDSAQHLDROVKILGMLNSINDILNYSQGE-----		AIKVFQKLQGWATIGAQIE	:	340	
cry7Aa	:	-----PDIGPSFSQMENTAIRPHLDVLDYLDYLYTSKYKAFSHE--		IQPDLYFWSAHKVSFKKSEQSN	:	367	
cry8Aa	:	STG-FCNPWSTHSGILFYEVENNVIRPPHLLTILSVEINTSGGITL-----		MNDAYINYSGHITLKYRRT-	:	382	
cry10Aa	:	-----FRITTELENGLTRNPTLFTWLNQGRFYTRNSRDILDP-----		YDIFSTGNQMAFTHNDNRN-	:	382	
cry16Aa	:	-----LMTYFSFEKAEPLYTRAPHLFTWLNQGRFYTRNSRDILDP-----		YDIFSTGNQMAFTHNDNRN-	:	374	
cry19Ba	:	-----LMVPYISFEHAEPLYTRAPHLFTWLNQGRFYTRNSRDILDP-----		YDIFSTGNQMAFTHNDNRN-	:	374	
cry24Aa	:	SFG--DUTNTGRTLANFMDLREVIDSPSLVKQLGMDTIYTGADSYRPTSPGDRIGVGVGYNIAFYHTIGRTDWW		SWTFLSGGENRYFLTHGECT-	:	368	
cry25Aa	:	KS-----DIFSRNLNFDYENRLTRPREPNYLNVSQVFASTVSNMNG-----		EVLRCNLNKNINFEGGWTAS	:	379	
cry40Aa1	:	YS-----WLKYWTGAFNTLEANGTRGPGLVTLWLSRIGIYNEYSRYFSG-----		WVGTRHYEDYTTGNCNFQ	:	384	

FIG. 1C

REPLACEMENT SHEET

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460      *      480      *      500      *      520
exmi009 : HNFGRDTSITPIQYFNFAWLVSVFSTIESLARIYLGTEANNYITTSQYGSRVITNTSINMVP---G---SLRYEV : 460
cry1a : EFAFPLFGNAGNAAPP-VLVSLTGLGIFRTLSPLRYRIILGSGPMNQLFVLDGTEFSAFLITNLPSITTYRQR : 405
cry1a : EFTFLYGTMGNAAPQORIVAQLGQGVYRTLSSTLYRRPFN-IGIMNQLSVLDGTEFAYG-TSSNLPSSAVYRKS : 404
cry1a : -ITSPIYGREANQEP--RSFTFNGPVFRILSNPTURLLQQWPAPPNLRWEGVEFSTP-----TNSFTYRGR : 403
cry1a : GGTLNISTQGSTNTSINPVTLPFTSRDVTYTESLAGLNLFLTQPVNGVPRVDPHUKFVTHPIASDNFYYPGYAGI : 445
cry3a : IITSPFYGNKSEPVQ--NLEFNKEKVVAVANTWIAVMP--AVYGVTKVEFQYNDQTD--EASTQTYDSKR- : 451
cry3a : TITSPFYGDKSTIEPIQ--KLSFDGQKVYRTIANTIDIAFPDGIYGVTKVDFQYDQDKM--ETSTQTYDSKRY : 454
cry3a : TITSPFYGDKSTIEPVQ--KLSFDGQKVYRTIANTIDVAAWPNCKVYLGKVDQYDQDKM--ETSTQTYDSKRN : 446
cry4a : ---QKSVFNGHNVTDKLSGLATNIYIFLLNVISLDNKYLDNNYSKMDFTTNGTRLLEKELTAGSGQITY : 467
cry6a : NLRTTSLQEVQDSDDADEIQIELEDAADLVVAQEARFTLNAYSTMSRQNLFINVISDS-----CNCST : 406
cry7a : LYTTGIYCKTSGYISSG--AYSFHGNDIYRTIAAPSVVVVYPTQNYGVEQVEFYGVKGHVH-----YRGD : 430
cry8a : ADSTVITYTANYGRITSEKNSFALEDROIFFINSTVANLANYYKAYGVPGSGWFMVKRGTSSTTAVLYSKITHAL : 457
cry10a : ITWGAHGNIIISQDTSKVFPFYRNKPIDKVEIVRHEYSIDIYEMIFFMSNSEVFRYSNS-----TI : 445
cry16a : INEGSRGQDITYGGTSTINIPMSYVYMLWJENYIYIYPUQDPVNTKMNFSVTDNMS-----KELIYGAHRT : 445
cry19a : IYNGPFLGQDTEYGGTSSYIDISNMSSIYMLWTKNWEIYPUTDPVNTKINFSITDNMS-----SESIYGAERN : 439
cry24a : MFRQTGDTAYEDPSTFISMLYDDIYKLDLRAAAVSTIQAMDITFGVSSSRFFDIRGRNQ-----LYQS : 444
cry25a : RSGDGVITGTPTFSTMDWSYCGWYPRKHAEITRSQALPGLNMSIHVIVGIDSFRAIGPGG-----QGDHTFSL : 453
cry40a : RMSGTTSDLRDISFPNSDIFKIESKAIMMLVGEINARPEYRVSAETSESTAFIYLYDAG----- : 448

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*      540      *      560      *      580      *      600
exmi1009 : PANLPSUTILSELPGKOKPRPNAGDFSHRLSYISNFDARRSS-SGGIVSLTTFGWAHTSMDNRNLEPKITQID : 534
cry1a : G----TVDSLDVIPPDNSVPPRAGFSHRLSHVMTLSQAAG--AVYTLRAPTFHQHRSAEFNNIIPSSQITQP : 474
cry1a : G----TVDSLDEIPPQNMNVPPRQGFHRLSHVSMFSGFSNVSIIIPAPMFSUIHRSAEFNNIIPSSQITQP : 475
cry1a : G----TVDSLTELPEDNSVPPREGYSHRLCHATTVQKSGTP---FLTGGVVSUTHRSATLITNTIDPERINQIP : 471
cry1a : G---TQLQDSENELPPEATGQPNYESYSHRLSHIGLISAS-----HVKALVYSUTHRSADRINTIEPNSITQP : 511
cry3a : NCVASDSDIDQLPETTDEPLEKGYSHQLNYVMCFMLQGSR-----GTIPVLTWTHKSVDFFNMIDSKKITQP : 521
cry3a : NGYLAQSDIDQLPETTDEPLEKAYSHQLNYAECFLMQDRR-----GTIPFVTWTHRSVDFFNTIDAETITQP : 524
cry3a : NGHVASQSDIDQLPETTDEPLEKAYSHQLNYAECFLMQDRR-----GTIPFVTWTHRSVDFFNTIDAETITQP : 516
cry4a : DMKNIFGLPILKRRNOGNPTLFPYDNYSHILSFTKLSIIPATYKTQVYTFATHSSVDPKNTIYTHLITQP : 542
cry6a : TMTNSQVSNPTTMTSNQYMHISHEVTSLPNNFMLSNSNLEKCPENNFMIVYNNSDWYNNSDWYNN----- : 475
cry7a : NKYDLTVDSDIDQLPPDG--EPIHEKYTHRLCHATAIFKSTPDYDN--ATIPFSTHRSAEYNNIYPNKITQP : 501
cry8a : QGCTQVYESSEDEIPLDRT--VPVAESYSHRLSHITSHFSKNG--SAYGSPVPVFWHTHSDALNNTIYSDKITQP : 530
cry10a : ENMYKRTDSYMIKQJTK-----NEEYGHTLVSIKTDNYIFSVVR--ERRVAFSUTHSVDFQNTIDLDNITQH : 514
cry16a : MKPVVTRDFTLTKKEGTEIAKYNDYMHILSYMLINGETFGQ-----KRHGSFATHSSVDPNNITTAANKITQP : 516
cry19a : MKPTVRTDFNLLRAGNGPTTYNDYMHILSYMLINGETFGQ-----KRHGSFATHSSVDRYNTIYVDPKITQP : 510
cry24a : NKYPSPITITITTFGEESSSEGNANDYSHLLCDVKILQEDSSCEGRSLLSHAWTHASLDNRNTILPDEITQP : 519
cry25a : PGGDMYDCGKVQINPLEDYNSDHWISDMMTINQSVQIASNPQTTFASFALSGLGHHSSAGNRNVVYDKITQP : 528
cry40a : NSGLSSMTITTSKLPGLKNPEPSYRDYSHRLSNAACVCAGNR-----INVYGWHTSMTSKYNLIYDPKITQP : 516

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FIG. 1D

REPLACEMENT SHEET

	*	620	*	640	*	660	*	
exmi009	:	AVKQWGN--IGFVI---	PGTGGMLVKVSDSHS	-----	LKVQP--	QRQTSYRIRYACLVTHGDALFVEH	:	596
cry1a	:	LTKSTNLG--SGTSVVKGP	FTGEDIILRTSPG	-----	QISTLRVNITAPLSQRYVRIRYASTTNLQFHTSIDG	:	542	
cry1a	:	AVKGNFLF--NGSVIS--	GPCFTGDLVRLNSSGNNQMRGYIEVP	-----	IHPSTSTRVVRVYASVTPHLNVNUGN	:	547	
cry1a	:	LKGFVRW--GQTSVITG	PGFTGEDIILRNFTG	-----	DFVSIQVNIINSPIQVRRLRFRVASSRDARVILTGA	:	539	
cry1a	:	LKAFNLS--SCAAVRGP	FTGEDIILRNFTG	-----	TFGDIRVNIINPPFAQRYVRIRYASTTDLQFHTSING	:	579	
cry3a	:	LKAYALQ--SCASVAGPR	FTGEDIICQTE	-----	NGSAATYVTPDVSYSQKYRARIRYASTSQITFTLSLDG	:	589	
cry3a	:	VVKAYALS--SGASIEG	PGFTGDNLLFKESS	-----	NSIAKFKVTLNSAALLQRYVRIRYASTTNLRLFQNSN	:	594	
cry3b	:	VVKAYALS--SGASIEG	PGFTGDNLLFKESS	-----	NSIAKFKVTLNSAALLQRYVRIRYASTTNLRLFQNSN	:	586	
cry4a	:	AVKANSLG--TASKVQGP	CHTGGDLIDFKOHFK	-----	ITCQHSNFQSYFIRIRYASNGSANTRAVINL	:	606	
cry6a	:	-----	-----	-----	-----	:	-	
cry7a	:	AVKMYKLD--DPSTVVKGP	FTGDLVKRGSTG	-----	YIGDIKATVNSPLSQRYVRIRYATNVSGQFNVIIND	:	569	
cry8a	:	AVKGDMLY--LGSVWQGP	FTGDLVKRTNPS	-----	ILGTFATVNGSLSQRYVRIRYASTTDFEFTLYLG-	:	597	
cry10a	:	ALKALKVS--SDSKIVKGP	FTGDLVILKDS	-----	MDFAVRLKNVSRQYVRIRYATNAPKTIVFLTGI	:	579	
cry16a	:	VVKASSIN--GSIIEKGP	FTGDLVKMRADS	-----	GLTMRFKAEILLDKYVRIRYKCNYSKLLIRKQK	:	582	
cry19a	:	AVKTNLVG--ANLIK--	GPHTGDLVKLEYER	-----	FLSLRIK-LIASMTFRIRIRYASNISGQMMINIG-	:	572	
cry24a	:	AVTAYELR--GNSVWAG	PGSTGDLVKMSYHS	-----	VUSFKYCSLKNVVRIRYASHGNCQFLMKRQ	:	584	
cry25a	:	ATKTVREHP-----	WIKGPFTGDLADLSHS	-	DILQYDLRSDYDDLTDVPRIRIRCASIGYSTISVDNUG	:	597	
cry40a	:	AVKAFDISDTGPGQVIAG	PGHTGNNVSLPYYSR	-----	LKIRLIPASTKNVYLVRVRYTSTSGRLLVERMS	:	584	
exmi009	:	S--GSSHIVSFFDCSN	SGRPSNTLLESDFRVIDVPGIFTPSIN	---	PLIRYRTQSGF	-----	THAIDKFEIP : 660	
cry1a	:	RPIINQ-----	NFSATMSSGNLQSGSFRIVGFTTFFNFSGSVFTLSAHVFNISG	---	NEVVIDRIEFIP	:	605	
cry1a	:	SSIFSN-----	TVPATATSLDNLQSSDFGYTESANFTSSLGN	---	IVGVNPSGT	-----	AGVIDRIEFIP : 607	
cry1a	:	ASTGVGGQSVNMPLOK	TWEIGENLTSTRTFYDFSMPFSFRANPDIIIGTSEQLFGAGSISSGELYIDKIEILL	:	614			
cry1a	:	KALNQG-----	NFSATMNRGEDLDYKTRFVGTTPFSLDQSTFTIGAMNFSG	---	NEVVIDRIEFIP	:	642	
cry3a	:	APFNOVY-----	FDKTTNKGDILTNSFNLASFTSPFELSG	---	NNLOIGVIGLSAG	-----	DKVYIDKIEIP : 650	
cry3a	:	NDFLVIY-----	INKTMNIDGDLTYQTDFATSNMNGSGTNDFTIGAESFVSN	---	EKIYIDKIEIP	:	657	
cry3b	:	NDFLVIY-----	INKTMKODDLTYQTDFLATNSMNGSGDKNELIGAESFVSN	---	EKIYIDKIEIP	:	649	
cry4a	:	SIPGVAELG--MALNPT	FGTDYTNLKYKDFOYLEFSNEVKFAPQONISLVFNRSVYIN	---	TTVLIDKIEIP	:	676	
cry6a	:	-----	-----	-----	-----	:	-	
cry7a	:	KITLQTKFQ-----	TVETIGECKOLTYSGFGVIEYSTIQQPDEHPKITLHLSLNN	---	SSFYVDSIEIP	:	635	
cry8a	:	DTIEKN-----	RPNKTMONGASLTVETFKFASFTTDFQFRETQDKILLNSGDFSSG	---	QEVYIDRIEFIP	:	660	
cry10a	:	DTISVELP--S--	JTSRQNPENATDLTYADFGVYTPFRVFNKTEGEDILLTLTYGTPN	---	HSYNIYIDKIEIP	:	648	
cry16a	:	CEGYIQOQIHN--	ISPTYG--	AFSVLESFTTITTIENIFDLTMEVTPYGRQFVEDIP	---	SLIIDKIEIP : 646		
cry19a	:	---YQNPTYFN--	IIPTSRDYTELKFDFOVDTSYLGGPSISNTLWLDNFSNG	---	PVIDKIEIP	:	636	
cry24a	:	STGVAPRQWAR--	HNWQGTFSNMRYEAFKYLDIFTITPEENN	---	FATIDLESQG	---	DLFDKIEIP : 647	
cry25a	:	SSSPQVT-----	VASTAASLDTLKVESFQVVSIPGNYFDSAPRILRQPCR	---	LLVDRIEFIP	:	655	
cry40a	:	P-----S-----	SIINSYFFLPSTGPGDSFGYVDLTITFNQPGVEIILQMLDTP	---	INNVDKFEIP	:	639	

FIG. 1E

	760	*
exmi009	: LNTFPNQSLE----	KREQEVNDLFIN : 682
cry1Aa	: AEVTEAEY----	DLERAKAVNLFY : 628
cry1Ac	: VTATLEAEY----	NLERAKAVNALFT : 630
cry1Ca	: ADATFEAES----	DLERAKAVNALFT : 637
cry1Ia	: VEVTEAEY----	DFEKAQEKVTALFT : 665
cry3Aa1	: VN-----	: 652
cry3Ba	: VQ-----	: 659
cry3Bb	: VQL-----	: 652
cry4Aa	: ITRSIREDKOKLETVOQIIINTFYA	: 702
cry6Aa	: -----	: -
cry7Aa	: VDVNYAEKE----	KLEKAKAVNTLFT : 658
cry8Aa	: VDETTEAEQ----	DLEAKKAVNALFT : 683
cry10Aa	: ITQSVLDYTEKQNIKTOKIVNDLFV	: 674
cry16Aa	: TN-----	: 648
cry19Ba	: LGITLNAQ----	GYDTYQNAHMYH : 659
cry24Aa	: VSGSAFEYEGKQNIKTOKAVNDLFI	: 673
cry25Aa	: VNFFPISEQ-----	E--NKSVDSLFI : 674
cry40Aa1	: VNSTALEYEGKQSLKAKQDVVNDLFV	: 665

FIG. 1F